

ELECTRONIC TUBE REFERENCE

6879

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

COUNTERSELECTORSWITCH

Cold-cathode decimal counting and selector tube that advances a glow discharge among numbered cathodes in response to guide-electrode pulses.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9AD	BASE PINS	9
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9AD - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN3 – K	A	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN7 – G2	A	G2 – Screen Grid	CONNECTED
PIN8 – P	A	P – Plate (Anode)	CONNECTED
PIN9 – G3	A	G3 – Suppressor Grid	CONNECTED

SECTION RATINGS

SECTION1 CounterSelectorSwitch	
PLATE RESISTANCE	13700 Ω
TRANSCONDUCTANCE	0.00153 S
AMPLIFICATION FACTOR	21
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM REGULATOR CURRENT	0.6 mA
<i>Published maximum ratings, representative operating conditions, and available capacitance/rectifier data reviewed.</i>	

Miniature cold-cathode decimal counting/selector tube with selected output cathodes brought to base pins.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · CounterSelectorSwitch

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage maximum	800 V	—



SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · CounterSelectorSwitch

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published handbook rating
Maximum screen voltage	150 V	Published handbook rating
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Control-grid bias	8 V	ClassA
Plate current	5.5 mA	ClassA
Triode-connected plate voltage	250 V	TriodeConnection ClassA
Triode-connected control-grid bias	18 V	TriodeConnection ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode-connected plate current	53 mA	TriodeConnection ClassA
Triode-connected screen current	2.5 mA	TriodeConnection ClassA
Triode-connected load resistance	4200 ohm	TriodeConnection ClassA
Triode-connected power output	11.3 W	TriodeConnection ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	13700 ohm	Published handbook characteristic
Transconductance	1530 μ S	Published handbook characteristic
Amplification factor	21	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	150 mA	Published heater/filament rating
Triode-connected plate resistance	48000 ohm	TriodeConnection
Triode-connected transconductance	5200 μ S	TriodeConnection



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1965 Sylvania Electronic Tubes Vol3

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · CounterSelectorSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage minimum	350 V	—
Anode supply voltage maximum	800 V	—
Anode current	0.6 mA	—
Pulse repetition maximum	5 kpps	Pulse

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode supply voltage	350 V	—
Nominal tube drop	187 V	—
Guide bias minimum	35 V	—
Square pulse drive amplitude minimum	-75 V	Pulse
Square double-pulse width minimum	60 us	Pulse
Forced reset pulse amplitude minimum	-120 V	Pulse
Forced reset pulse width minimum	50 us	Pulse
Cathode load resistance maximum	150 kohm	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transfer voltage	140 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Decimal pulse counter / selector	—

TUBE TINKER

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